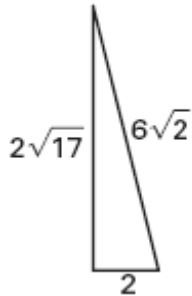


Geometry 9.3 Converse of Pythagorean Theorem (pp 543-5)

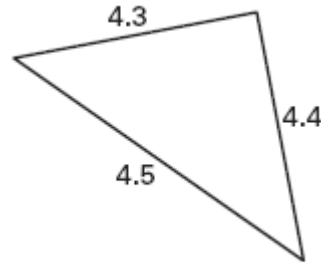
1. What is your name?

Tell whether the triangle is a right triangle.

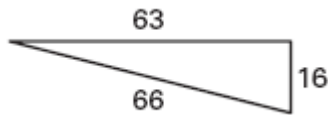
2.



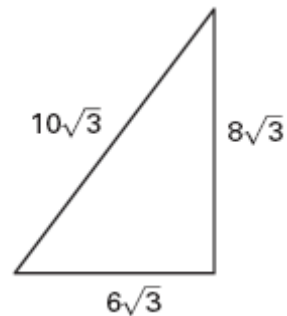
3.



4.



5.



Decide whether the numbers can represent the side lengths of a triangle. If they can, classify the triangle as *right*, *acute*, or *obtuse*.

6. 8, 12, 18

7. 5, 7, $\sqrt{74}$

Geometry
543-5)

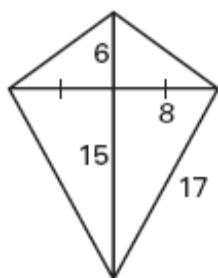
9.3 Converse of Pythagorean Theorem (pp

8. $6, \sqrt{15}, 5\sqrt{2}$

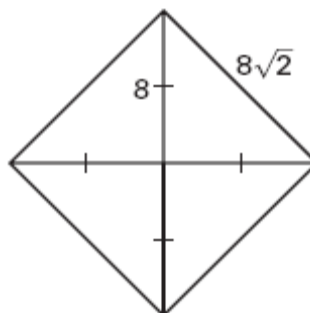
9. 21, 72, 75

Classify the quadrilateral. Explain how you can prove that the quadrilateral is that type.

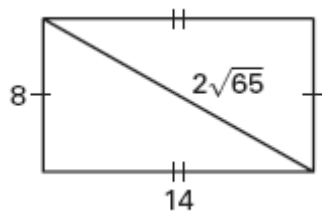
10.



11.

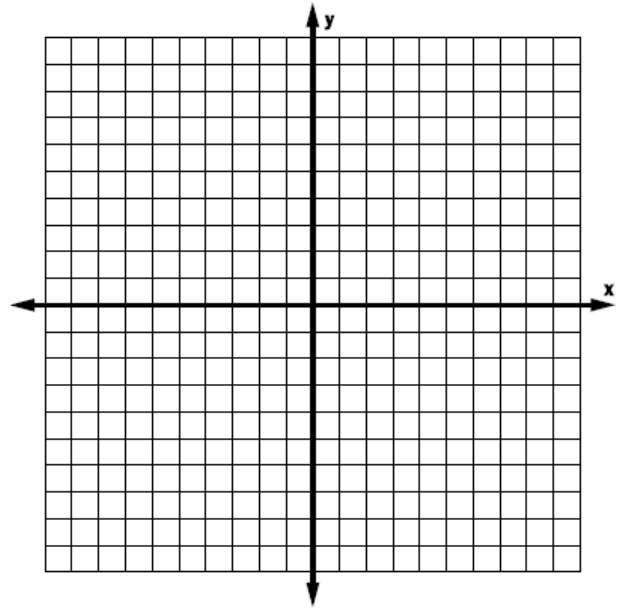


12.

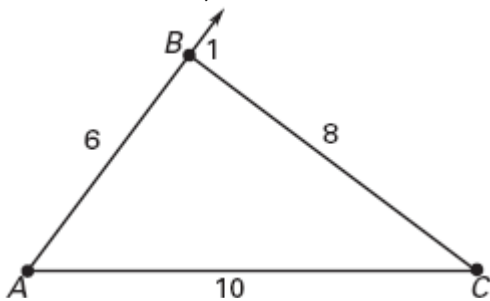


Geometry 9.3 Converse of Pythagorean Theorem (pp 543-5)

13. Quadrilateral $QUAD$ has vertices at $Q(-5, 2)$, $U(-1, 7)$, $A(4, 3)$, & $D(0, -2)$. Plot the figure and indicate what type of quadrilateral $QUAD$ is. Find the perimeter of $QUAD$.

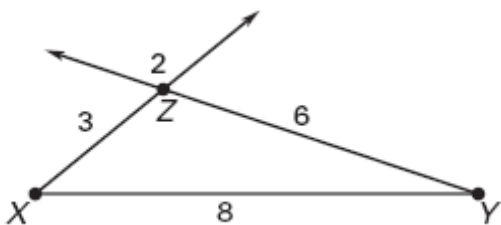


14. If $AB = 6$, $BC = 8$ & $AC = 10$, show that $\angle 1$ is a right angle.



Geometry 9.3 Converse of Pythagorean Theorem (pp 543-5)

15. If $XZ = 3$, $ZY = 6$, & $KY = 8$, show that $\angle 2$ is obtuse.



Review.

Simplify the expression. (p 799)

16. $\sqrt{14} \cdot \sqrt{6}$

17. $\frac{12}{\sqrt{18}}$

18. $\sqrt{15} \cdot \sqrt{6}$

19. $\frac{8}{\sqrt{24}}$

20. In the diagram, \overline{PS} bisects $\angle RPT$, and \overline{PS} is the perpendicular bisector of \overline{RT} . Find the values of x and y .
(Chapter 5 Section 1)

